BRUHAT BANGALORE MAHANAGARA PALIKE

Yelahanka Zone, Electrical Division

Name of Work:-Detailed Estime for Providing CCTV Cameras to the crematorium atMediagrahara Lakshmipura in Ward No 11

Ward No. 04 **Estimate No:-** **For Rs. 400000.00**

Sl No	SR Page & SL No	Description Of Work	Unit	Qty	Rate	Amount
1	88/12.2.3	Supplying, erecting, testing & commissioning of OFF-LINE UPS system suitable for operation on 230V, 50Hz, A/C supply, with all accessories complete and Excluding batteries and wiring complete.2 KVA OFF LINE UPS One Hour back up Excluding 3x 80Ah batteries	Mtrs	1	24352.00	24352.00
2	88/12.4.4	Supplying, installation, testing & commissioning of 12V DC, AH batteries in poly propylene container for U.P.S. Low maintenance Tubular batteries.12 V ,100 AH capacity Acid Battery	Mtrs	2	16100.00	32200.00
3	85/11.4.1	Supplying & Fixing of switch mounting rack with power manager & Cable manager. 6U with 450mm depth	Nos	1	4394.00	4394.00
4	08/2.8.3	Supplying and drawing Flexible Multicore Cable manufactured with electrolytic grade flexible copper with low conductor confirming to table 3 class 5 of IS:8130-1984 and (Virgin) PVC insulation and sheathed suitable for working voltage upto 1100Volts as per IS-694:1990 & confirming to GTP of GROUP-A.4C X 1.5Sq.mm	Mtrs	800	67.00	53600.00
5	2/1.1.2	Open Conduit System Supplying heavy gauge PVC conduit pipe .....dia .....mm thick confirming to IS 2509 with suitable size bends, junction boxes, adhesive paste etc., and fixing using inverted wood plugs in case of RCC ceiling and RCC wall / stone structure or rawl plugs in case of brick walls and cement plastering the damaged portion using heavy gauge saddles at an interval of 700mm using NF screws.25mm dia 2mm thick	Mtrs	304	70.00	21280.00
6	Ar	DS-7B16HUHI-K2 – DVR -HIKVISION Supports up to 5 MP Camera	Nos	1	30115.00	30115.00
7	Ar	DS-2CE5AHOT-ITPF-DOME camera -5 MP - HIKVISION	Nos	6	2975.00	17850.00
8	Ar	DS-2CE1AHOT-ITPF-BULLET camera -5 MP - HIKVISION	Nos	10	3945.00	39450.00
9	Ar	4 TB Hard Disk- WD Surveillance	Nos	1	13520.00	13520.00
10	Ar	Power Supply for Camera 12 V-16 Amps – ERD	Nos	16	2550.00	40800.00
11	Ar	32" TV – LED – TCL/LG/Samsung	Nos	1	28150.00	28150.00
12	Ar	Installation & Configuration of DVR Camera	Set	1	14850.00	14850.00
13	Ar	Huawei 4g Dongle E 8732 4 G Switch	Nos	1	4625.00	4625.00
14	Ar	Tplink MR 3020 4G Switch for remote Viewing	Nos	1	2758.00	2758.00

15	4.35	LED Street light.Supply of LED Streetlight with pressure die cast aluminum housing body with optimal heat sink for better thermal dissipation. Diffuser with Injection moulded & is made of polycarbonate material with high transmission index, delivering superior light output. Rated life Burning Hrs 50000 hr @ Lumen Maintenance of 70%. CCT > 5500K, IP 66 optical and electrical compartment & impact resistance of complete luminare > IK08. Power Factor >0.9 with mains Current should not be greater than 0.1A to 0.7A & Surge Protection- Min 4KV along with Over voltage/Overload, short circuit/ miswiring protection. Compatible for pole mounting with outer dia of 40mm to 50mm. Universal Voltage driver to operate wide voltage range from 100V to 270V 50/60Hz application. Over load & Short circuit protection ensures reliable operation in spite of problem in output side. Compliance to IS 10322/IEC 60598, LM 79 & LM 80 Adherence with RoHS. UL approved MCPCB. Top access street light with single screw to ensure ease of maintenance at the sight site location with minimized minimal tools. LED Light fixture with .....W System Power consumption. LED Efficiency>130lm/w at 1W & Fixture Efficiency >80lm/w with nominal CRI >75. Luminaire manufacturer should have in-house facility accredited by NABL/CPRI & any Government certified agency & Design & Development facility certified by ISO 9001:2008 . Housing with supplier word mark /name shall be Engraved / Embossing on the die cast housing/ Body part. Warranty of 5 Years against any manufacturing defect working under standard electrical conditions as mentioned above should be given by LED source manufacture. Suitable for B1/B2 Roads as per IS 1944 Part I & Part II.65 Watts	Nos	2	18720.00	37440.00
16	AR	Supplay and erection of Single phase Thyristor based smart street light control system consisting of following aquipments 1. Precise turn ON & OFF of street lights on pre programmed data 2. 2 x 16 character LCD display unit to display date, status ON Or OFF , turn ON & OFF time, 3. Keypad to set/edit ON & OFF time as per the end user 4. Microcontroller with Real Time Clock and associated hardware 5. 1 No, SCR 162 amps thyristor module for load switching mounted on an extruded alluminium heat sink 6. Thyristor Driver Card: Driver control circuit to switch ON & OFF the Thyristor module 7. Firmware: Firmware to control the hardware and display the required data 8. Power Supply: AC to DC conversion circuit required for the electronic circuitry and driver control card 9. Enclosure is made out of 18 swg CRCA ms sheet of size H480xW310XD200mm with luvers for Heat dissipation IP65 weather proof metal enclosure 10. Wiring & other components like wiring, connectors ,insulators, Alluminium Bus bar and 2 nos of 125 amps single pole MCB for main power Supply control and Manual On & off operation & etc complete.	Nos	1	31860.00	31860.00

17	64/7.2 2.1	Supplying and running GI/Copper conductor for grounding and (along with other wires in conduit system of wiring) using necessary suitable size clamps, nails, guttas/spacers etc. GI Wire 12 SWG	Mtrs	200	13.50	2700.00
18		Mislenious Charges Rs	Ls			56.00
		Total Rs				**400000.00**

CERTIFICATE :-

1. The place was inspected and the work is essential.
2. The provision made in the estimate are adequate and necessary and the work comes in the BBMP limit and is legitimate Charges on the BBMP funds.
3. The estimate is based on KPWD (Ele) S.R.2014-15 , BESCOM SR and Approved Rates.

Asst. Engineer (Elec)

Asst. Exe.Engineer (Elec)
Sub-Division No.
Bruhat Bangalore Mahanagara Palike

EXECUTIVE ENGINEER (ELEC)
YELAHANKA DIVISION
BRUHAT BANGALORE MAHANAGARA PALIKE

Administrative Sanction to Rs. 4.00 LAKHS
RUPEES - FOUR LAKHS
ONLY
is accorded under P0287 - M AND R TO
ELECTRICAL CREMATORIA
Registered as EE No. 10/2018-19 Subject
to conditions contained in enclosed memo
No. BBMP/EE/ELE/42/AS/10/ 2018-19
Dt 25.09.2018

Executive Engineer

TECHNICALLY SANCTIONED FOR Rs. 4.00 LAKHS
Rupees FOUR LAKHS ONLY
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Dt. 25.09.2018 Estimate A/ Sanctioned
BBMP/EE/ELE/42/TS/10/ No. 2018-19
Dated 25.09.2018 Rs. 4.00 LAKHS

Executive Engineer